

M 4.5, 7km NNE of Magna, Utah

Origin Time: 2020-03-18 14:02:12 UTC (Wed 08:02:12 local)
Location: 40.7652° N 112.0725° W Depth: 9.0 km

Created: 4 hours, 9 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

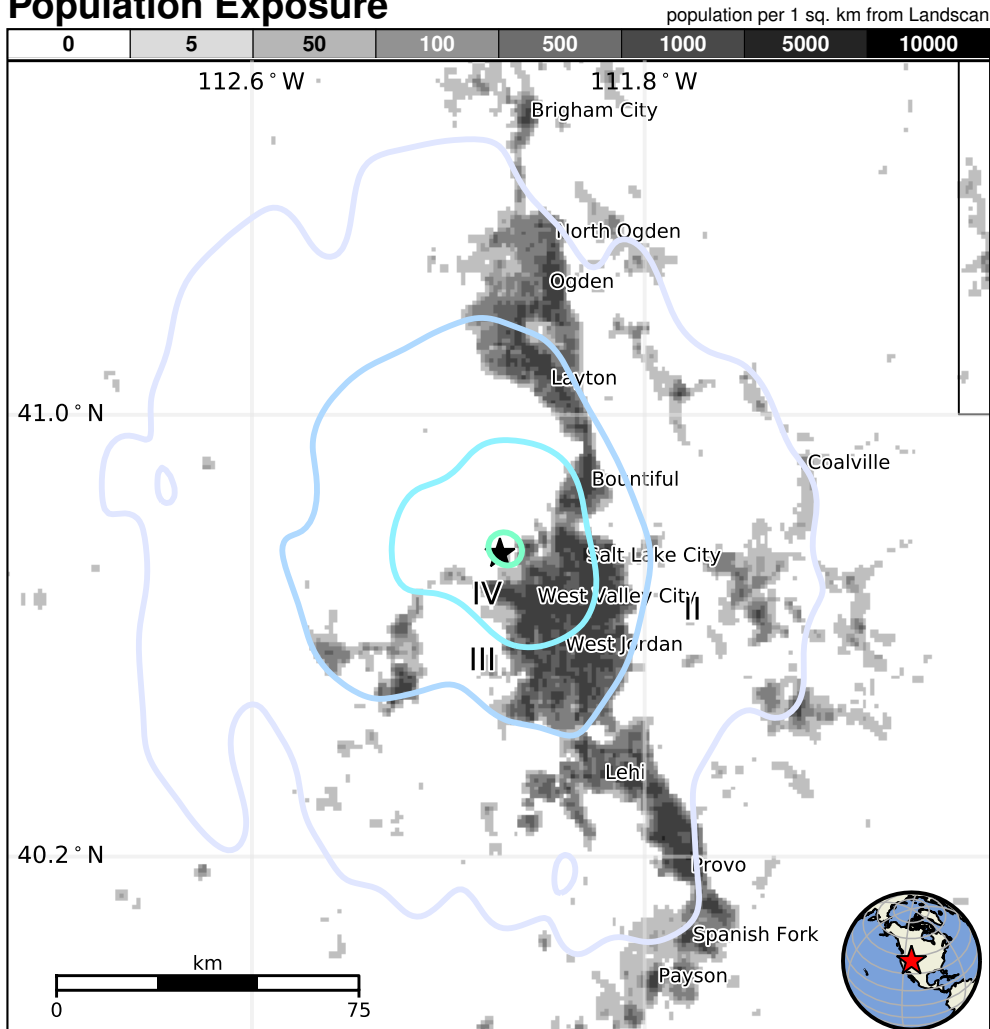


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		165k	1,776k	673k	16k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1983-10-28	397	5.6	V(8k)	—
1994-02-03	241	5.8	VIII(1k)	—
1983-10-28	394	6.9	VII(2k)	2

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Magna	27k
IV	West Valley City	129k
IV	Kearns	36k
IV	Taylorsville	59k
IV	South Salt Lake	24k
IV	Salt Lake City	186k
III	West Jordan	104k
III	Sandy City	87k
III	Sandy Hills	90k
II	Orem	88k
II	Provo	112k

bold cities appear on map.

(k = x1000)